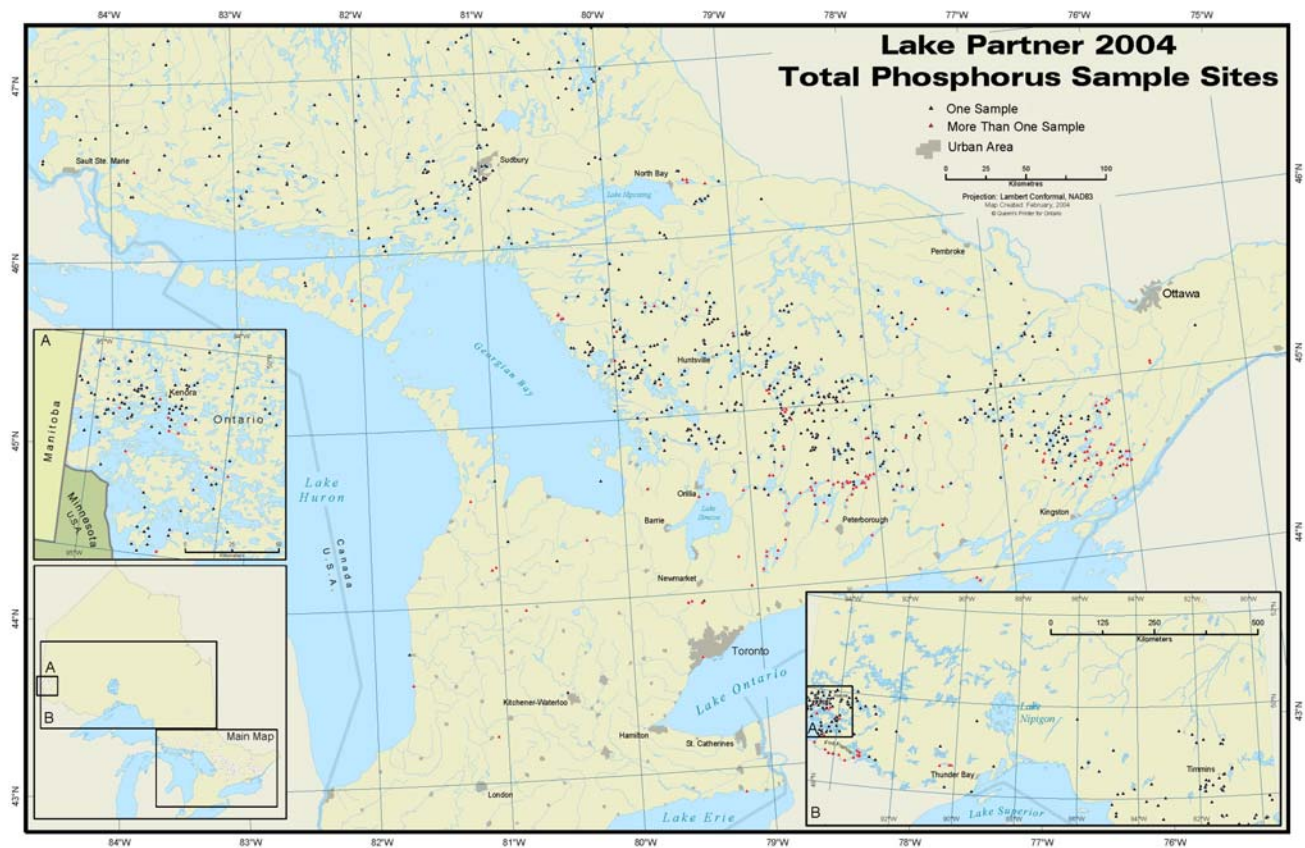


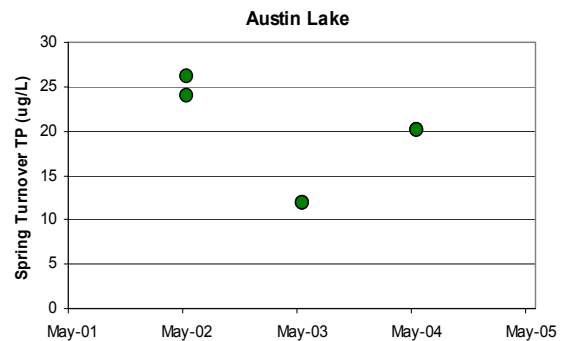
Lake Partner Program – 2004 Report

Phosphorus and Secchi results

Lake Partner Program volunteers collected water samples and made water clarity observations at 1253 locations throughout Ontario in 2004 (see map below). Volunteers will find the 2002 to 2004 total phosphorus (TP) sample results in the **2004 Total Phosphorus** Table. TP results for stations that were sampled prior to 2002 are shown as *annual means* for each station in the **Pre 2002 Total Phosphorus Annual Means** Table. These data are not as precise as the data collected since 2002 and, although the means of all years can be used to describe the average concentrations prior to 2002, they should not be used to observe trends through time. The mean annual Secchi depths observed for all stations since 1995 are shown in the **2004 Secchi Depths** Table. For help with the interpretation of these results please refer to the **Interpretation of TP and Secchi Results** report.



In most cases, the three years of data show small between-year differences in spring turnover TP concentrations. Within this database there does not seem to be a pattern towards increasing or decreasing concentrations over time. Considering a lakes' lifetime of thousands of years, three years is a relatively short period of time to examine trends, and new patterns may emerge in future years. Also, some lakes may show larger between year differences than others due to variations in flushing rates, or the magnitude of point and diffuse sources of TP to the lake. There are some lakes that show relatively large between-year differences (see Austin Lake). In some of these cases the TP increases, while in others it may decrease or the concentrations in the middle years may be higher or lower. It is unclear, at this point, what is causing these differences. Lake Partner data will be used to study these processes in detail as more years of data are collected.

[illegible]

2

Gould Lake

Total Phosphorus (ug/L)

Nov-01 May-02 Dec-02 Jun-03 Jan-04 Aug-04 Feb-05

Date (approx.)	Total Phosphorus (ug/L)
May-02	26.0
May-02	15.0
May-02	12.0
May-02	10.0
May-02	9.5
May-02	9.0
May-02	11.5
May-02	10.5
May-02	10.0
May-02	9.0
Jun-03	24.0
Jun-03	12.0
Jun-03	11.0
Jun-03	10.5
Jun-03	10.0
Jun-03	11.5
Jun-03	10.5
Jun-03	10.0
Jun-03	9.5
Jul-04	8.0
Jul-04	8.5
Jul-04	9.0
Aug-04	22.5
Aug-04	21.0
Aug-04	8.5
Aug-04	8.0
Aug-04	9.0
Aug-04	9.5
Aug-04	7.0
Aug-04	6.5
Aug-04	9.0
Aug-04	9.5

3